

CLAIMS

1. A crystalline mixture solid composition comprising
α-D-glucopyranosyl-1,1-mannitol,
5 α-D-glucopyranosyl-1,6-sorbitol and 0.01 to 1.99 wt% of
α-D-glucopyranosyl-1,1-sorbitol (the above wt% is based on
the total weight of the α-D-glucopyranosyl-1,1-mannitol,
α-D-glucopyranosyl-1,6-sorbitol and
α-D-glucopyranosyl-1,1-sorbitol).
- 10 2. A crystalline mixture solid composition comprising 50
to 98 wt% of α-D-glucopyranosyl-1,1-mannitol, 1 to 50 wt%
of α-D-glucopyranosyl-1,6-sorbitol and 0.01 to 1.99 wt% of
α-D-glucopyranosyl-1,1-sorbitol (the above wt% is based on
15 the total weight of the α-D-glucopyranosyl-1,1-mannitol,
α-D-glucopyranosyl-1,6-sorbitol and
α-D-glucopyranosyl-1,1-sorbitol).
- 20 3. The crystalline mixture solid composition of claim 1
or 2 which comprises 0.01 to 1.5 wt% of
α-D-glucopyranosyl-1,1-sorbitol.
- 25 4. A crystalline mixture solid composition which is thin
scale and comprises α-D-glucopyranosyl-1,1-mannitol and
α-D-glucopyranosyl-1,6-sorbitol.
5. The crystalline mixture solid composition of claim 4
which has a specific surface area of 0.1 to 5.0 m²/g.
- 30 6. A process for producing a crystalline mixture solid
composition, comprising the steps of supplying a composition
comprising 50 to 80 wt% of α-D-glucopyranosyl-1,1-mannitol,
1 to 50 wt% of α-D-glucopyranosyl-1,6-sorbitol and 0.01 to
20 wt% of α-D-glucopyranosyl-1,1-sorbitol into a kneader to

knead and cool it so as to produce a composition, mixing the composition with a hydrophilic solvent, and separating solid matter from a liquid (the above wt% is based on the total weight of the α -D-glucopyranosyl-1,1-mannitol,

5 α -D-glucopyranosyl-1,6-sorbitol and
 α -D-glucopyranosyl-1,1-sorbitol).

7. A process for producing a crystalline mixture solid composition, comprising the steps of supplying a composition
10 comprising 50 to 80 wt% of α -D-glucopyranosyl-1,1-mannitol,
1 to 50 wt% of α -D-glucopyranosyl-1,6-sorbitol and 0.01 to
20 wt% of α -D-glucopyranosyl-1,1-sorbitol into a kneader
having a thin and long cooling/kneading zone to knead and
cool it, extruding the kneaded product through a punching
15 plate, cooling and grinding the extruded molded product to
produce a powdery crystalline mixture solid composition,
mixing the composition with a hydrophilic solvent, and
separating solid matter from a liquid (the above wt% is based
on the total weight of the α -D-glucopyranosyl-1,1-mannitol,
20 α -D-glucopyranosyl-1,6-sorbitol and
 α -D-glucopyranosyl-1,1-sorbitol).

8. A process for producing a crystalline mixture solid composition, comprising the steps of mixing a hydrophilic
25 solvent with an aqueous solution which comprises 50 to 80
wt% of α -D-glucopyranosyl-1,1-mannitol, 1 to 50 wt% of
 α -D-glucopyranosyl-1,6-sorbitol and 0 to 20 wt% of
 α -D-glucopyranosyl-1,1-sorbitol, and separating the formed
precipitate from a liquid (the above wt% is based on the total
30 weight of the α -D-glucopyranosyl-1,1-mannitol,
 α -D-glucopyranosyl-1,6-sorbitol and
 α -D-glucopyranosyl-1,1-sorbitol).

9. The process for producing a crystalline mixture solid

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composition of any one of claims 6, 7 and 8, wherein the hydrophilic solvent is ethanol.

10. The process for producing a crystalline mixture solid composition of any one of claims 6, 7 and 8, wherein the hydrophilic solvent is an ethanol aqueous solution having a concentration of 60 to 90 %.

11. The crystalline mixture solid composition of any one of claims 1, 2 and 3 produced by the production process of any one of claims 6, 7 and 8.

12. The crystalline mixture solid composition of claim 4 or 5 produced by the production process of claim 8.

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